ENGLAND GCSE COMBINED SCIENCE AQA TRILOGY FOUNDATION · UNIT 21 · 10 QUESTIONS

Atomic Structure — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button so it can be fixed.

1 **A thermometer is placed in hot water. What happens to the liquid inside the thermometer?**

- A it evaporates
- B it freezes
- C it expands
- D it contracts

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2 **Glass marbles are used to model atoms. What is a limitation of the model?**

A marbles are the wrong colour for atoms

B marbles are much bigger than atoms

C marbles cannot be counted accurately at all

D marbles are too small to see properly

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3 **A sample has an activity of 3200 counts per minute. After 3 half-lives, what is its activity?**

A 400

B 800

C 1600

D 200

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4 **Silver coins are made of a metal. Which property do metals have?**

A they dissolve in water

B they do not conduct electricity at all

C they conduct electricity

D they are brittle

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5 **An atom has a mass number of 16 and an atomic number of 8. How many neutrons does it have?**

A 7

B 9

C 10

D 8

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6 **A sample's activity halves every 100 years. After 200 years, what fraction of the original activity remains?**

- A 1/2
- B 1
- C 1/4
- D 1/8

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7 **A calculator runs on a small current. What is current measured in?**

- A ohms, the unit of resistance
- B watts, the unit of power
- C volts, the unit of voltage
- D amperes

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8 **Hardcover books are dropped. What happens to their speed as they fall?**

- A it becomes zero
- B it increases
- C it stays the same
- D it decreases

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9 **A sample starts with 8000 counts per minute. After one half-life, what is the count rate?**

- A 8000
- B 16000
- C 2000
- D 4000

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10 **Why is alpha used in smoke alarms?**

A it is stopped by smoke

B it has a long half-life

C it is very penetrating

D it is not ionising

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ANSWER KEY

1. C
2. B
3. A
4. C
5. D
6. C
7. D
8. B
9. D
10. A

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